RG-WALL 1600 Next-Generation Firewall Overview

Applicable to V5.2-R5.0

Contents

- Preface
- Product Overview
- Product Forms
- Typical Networking Application

Preface

Audience

Ruijie business partners and customers who are responsible for configuring and maintaining Ruijie wireless devices.

Revision Record

Release Date	Change Contents	Reviser
2016.06	Initial publication V1.0	TAC Oversea

Note :

For more detail configuration , see configuration guide for each product . you can download configuration guide at http://www.ruijienetworks.com

For more technical enquiry , you can visit Ruijie Service portal at http://case.ruijienetworks.com . You need to sign up before submit a case.

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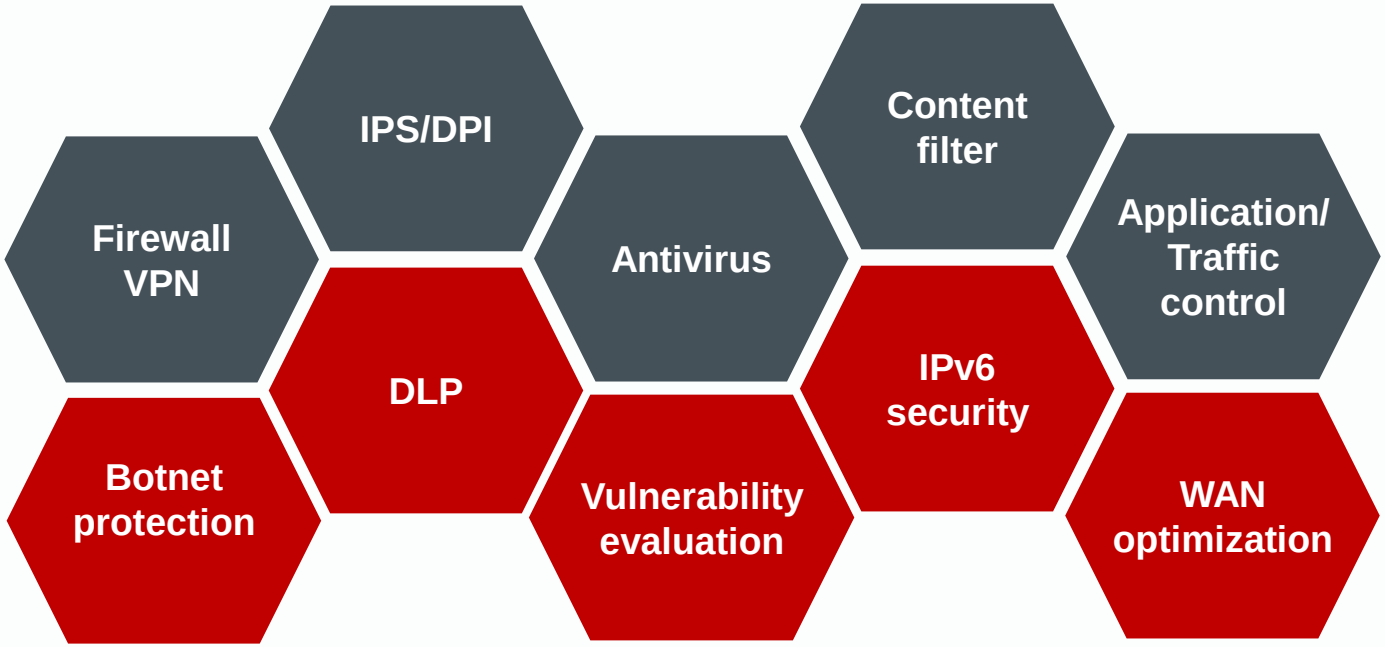
Product Overview

- **The RG-WALL 1600 next-generation firewall (NGFW)** is an all-round security product independently developed by Ruijie Networks. It features high performance, various interfaces, complete functions, integration of secure routing and switching, and high cost performance.

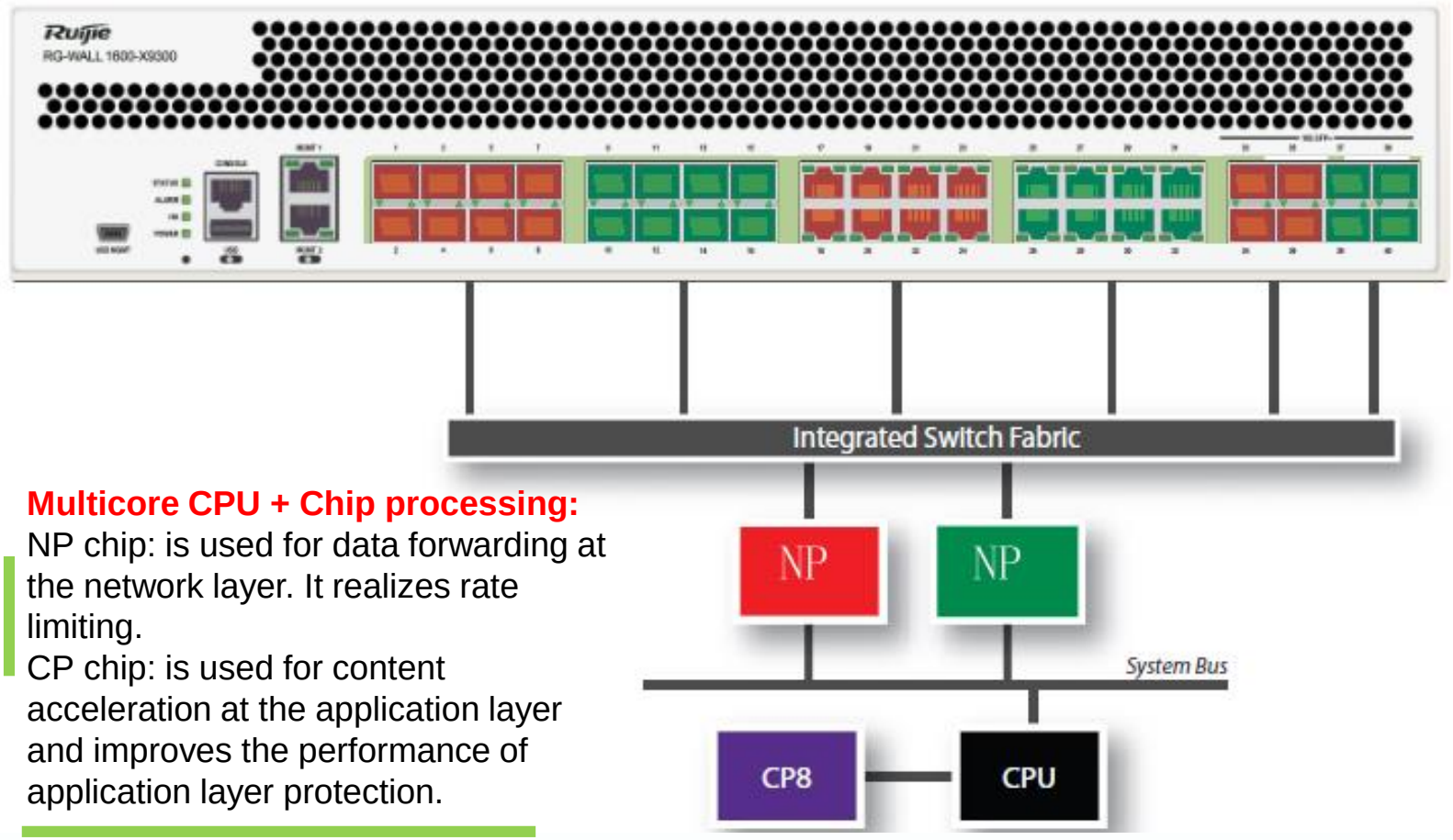
- With its **high-performance forwarding capability and integrated security protection, the product allows customers to save device investment and increase earnings.**

- The product is suitable for various types of users, including **enterprises, hotels, government agencies, and financial institutions**.

All-Round Multifunctional Protection



High-Performance Forwarding



Multicore CPU + Chip processing:

NP chip: is used for data forwarding at the network layer. It realizes rate limiting.

CP chip: is used for content acceleration at the application layer and improves the performance of application layer protection.

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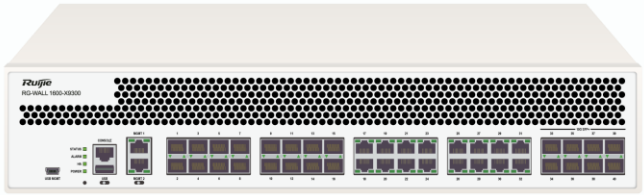
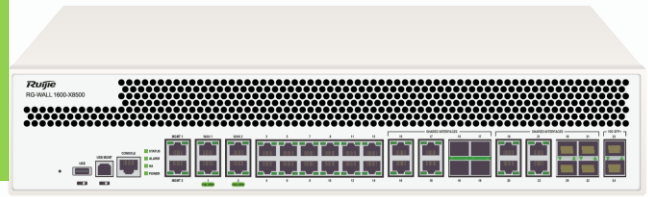
Product Forms

Performance

RG-WALL 1600-X9300
2U/18 x GE RJ45/
16 x GE SFP/8 x 10GE SFP+

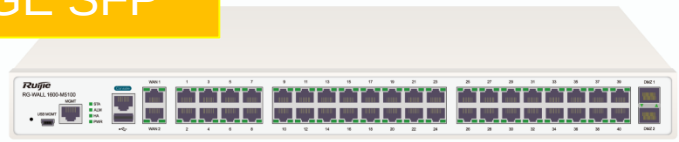


RG-WALL 1600-X8500
2U/8 x GE combo (RJ45 or SFP)
18GE RJ45/2 x 10GE SPF+

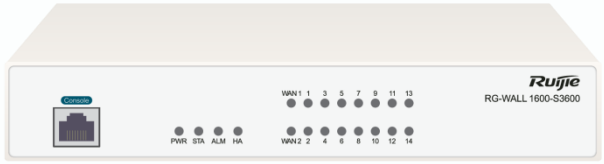


RG-WALL 1600-M6600
1U
10GE RJ45/8GE SFP

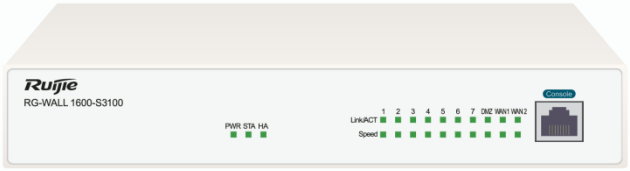
RG-WALL 1600-M5100
1U
42GE RJ45/2GE SFP



RG-WALL 1600-S3600
44 mm/16GE RJ45



RG-WALL 1600-S3100
38 mm/10GE RG45

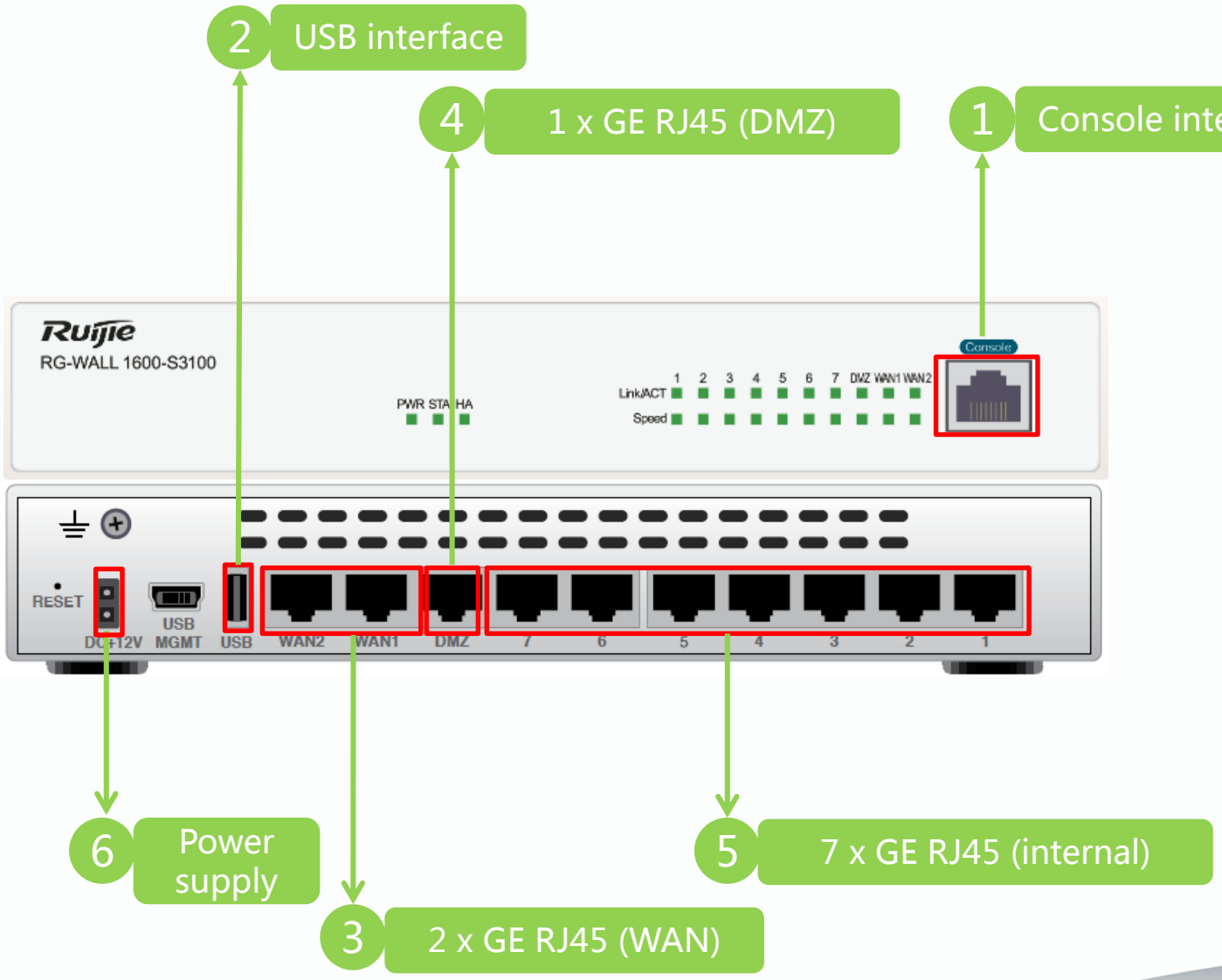


Number of users

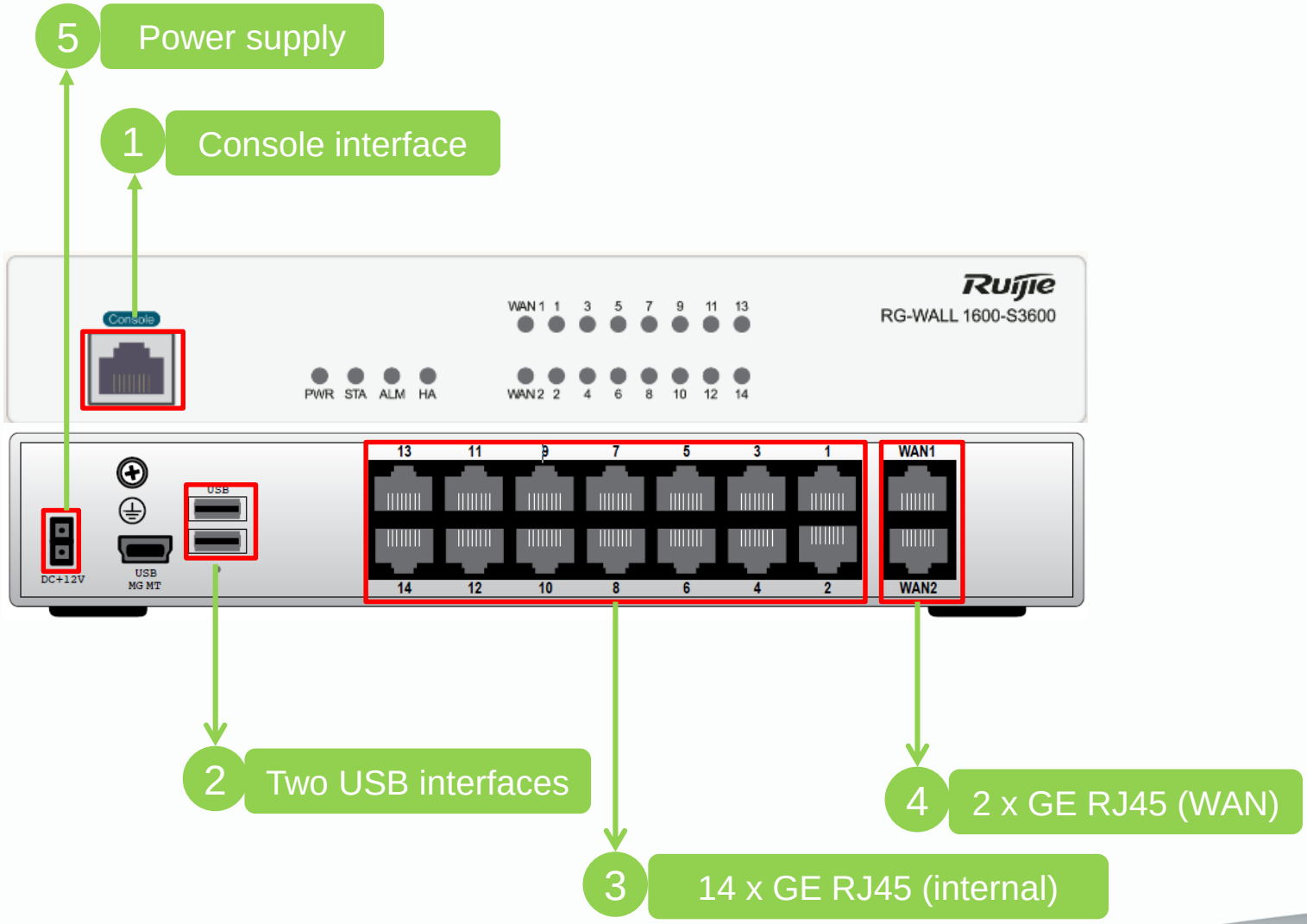
Performance Indicators

Model / Performance indicator	S3100	S3600	M5100	M6600	X8500	X9300
Firewall throughput	1.5 Gbps	3.5 Gbps	4 Gbps	16 Gbps	20 Gbps	80 Gbps
Maximum number of concurrent sessions	5,000,000	1.5 million	3.2 million	6 million	7 million	12 million
Application scenario	Small enterprise egress Small campus network egress Branch access 100-200 persons		Access of government agencies and large enterprises that require integrated switching and routing security for branch offices	Medium-sized enterprise egress, high-throughput scenarios, multi-area isolation center, and interaction with large traffic volumes	10 gigabit links and scenarios with high performance requirements, such as education networks, large enterprises, network egresses, and universities	

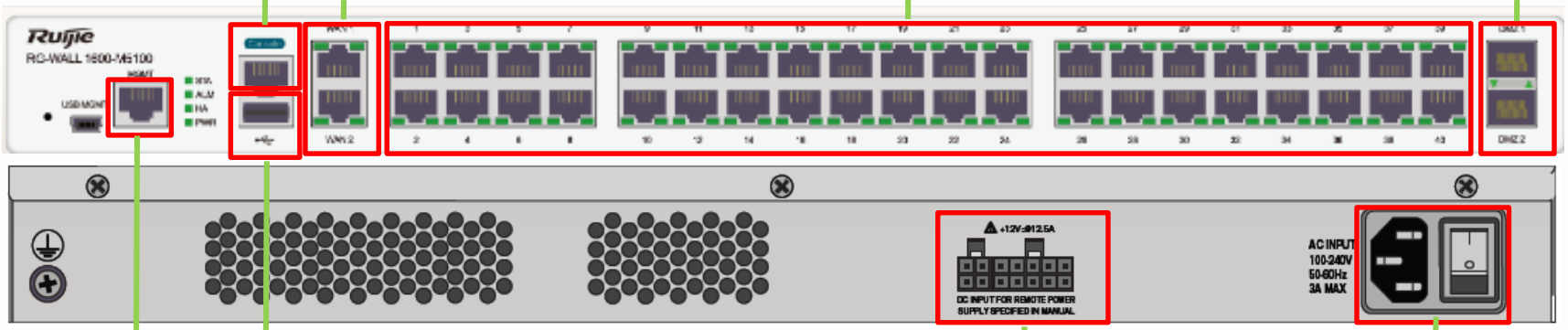
RG-WALL 1600-S3100



RG-WALL 1600-S3600



RG-WALL 1600-M5100



1 Console interface

3 2 x GE RJ45 (WAN)

4 40 x GE RJ45 (LAN, hardswitch)

5 2 x GE SFP (DMZ)

2 USB interface

6 Power supply/Switch

8 1 x GE RJ45 (MGMT)

7 Redundant power supply/DC

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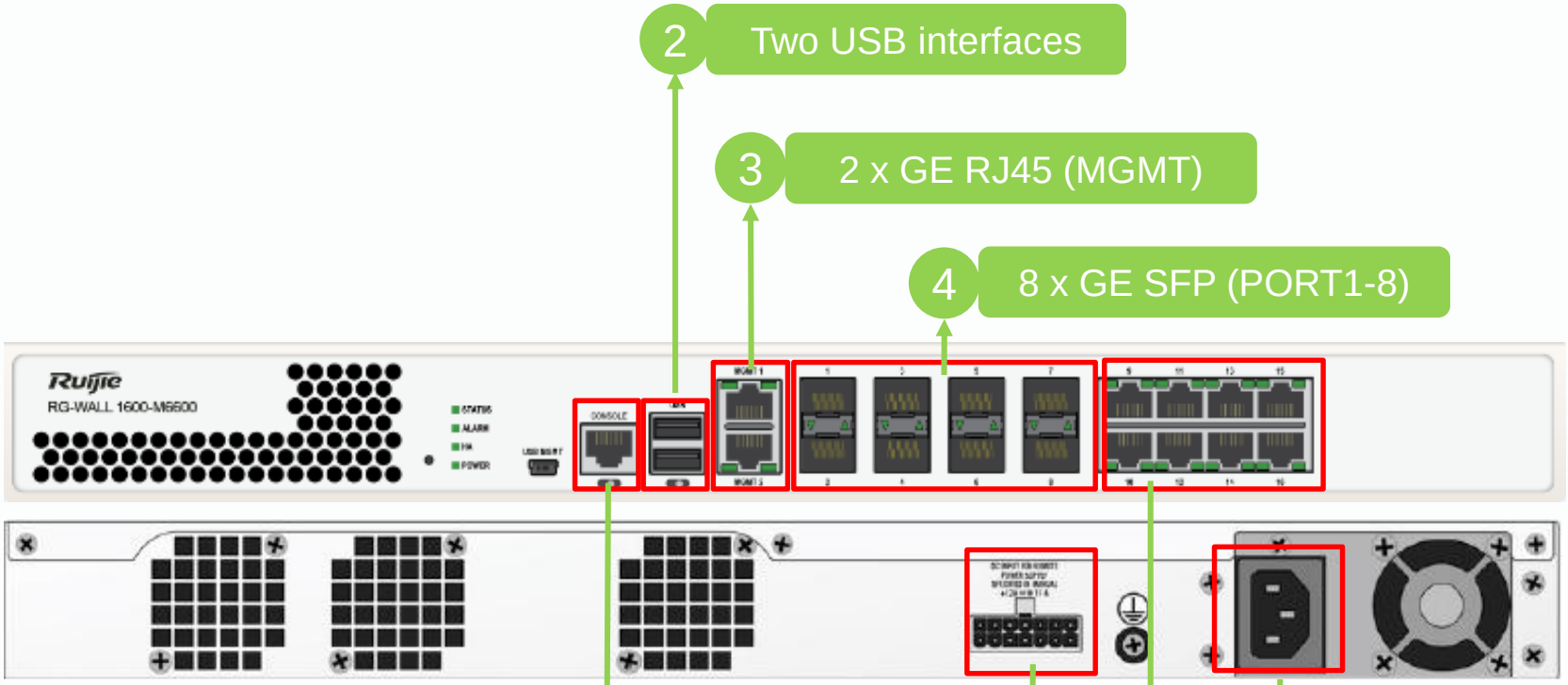
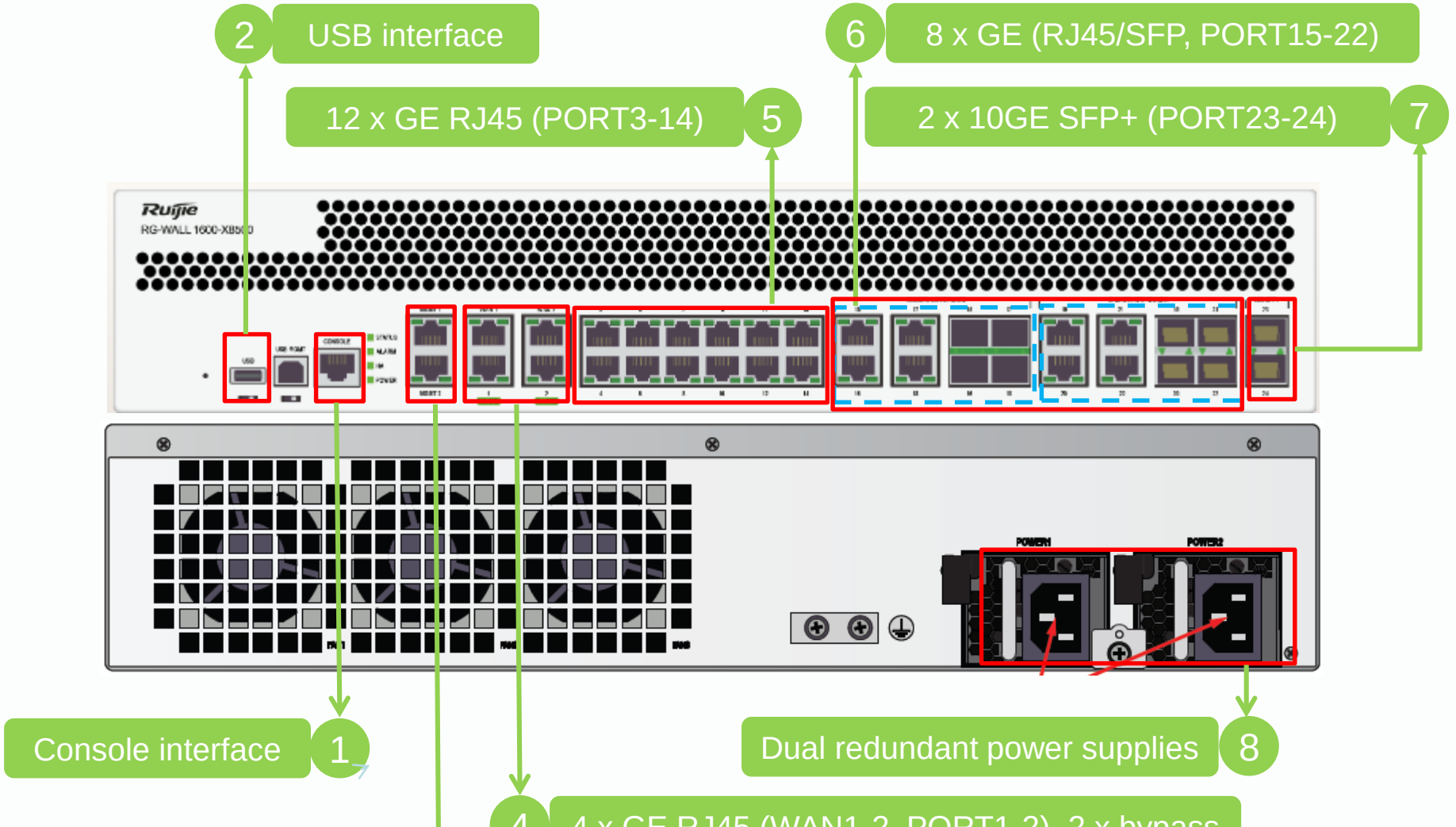
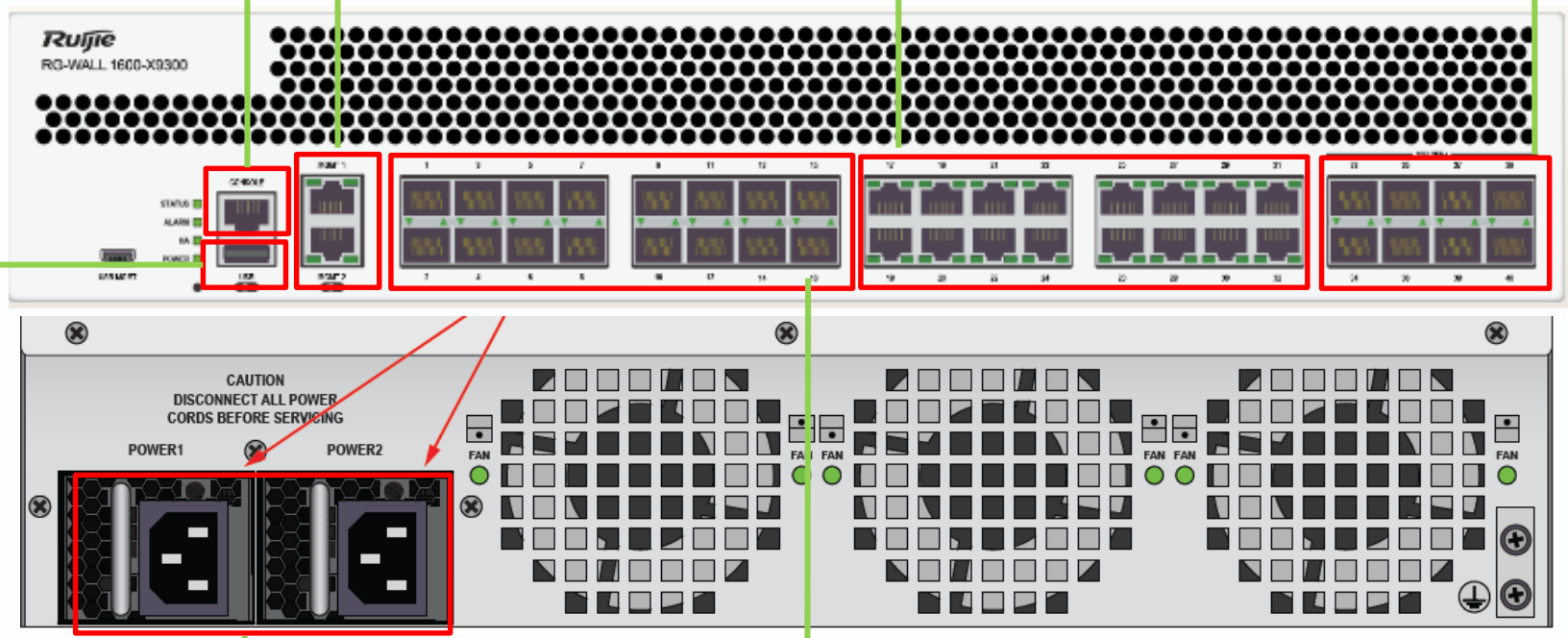
RG-WALL 1600-M6600



RG-WALL 1600-X8500



RG-WALL 1600-X9300



1 Console interface

2 USB interface

3 2 x GE RJ45 (MGMT)

4 16 x GE SFP (PORT1-16)

5 16 x GE RJ45 (PORT17-32)

6 8 x 10GE SFP+ (PORT33-40)

7 Dual redundant power supplies

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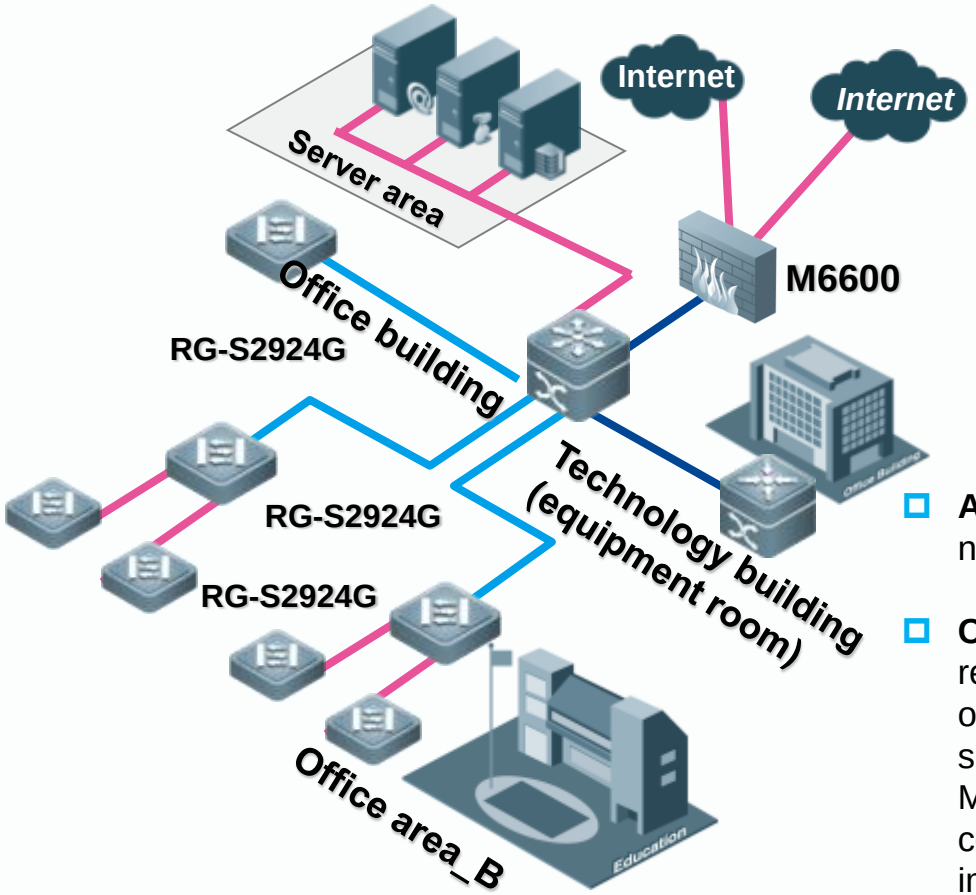
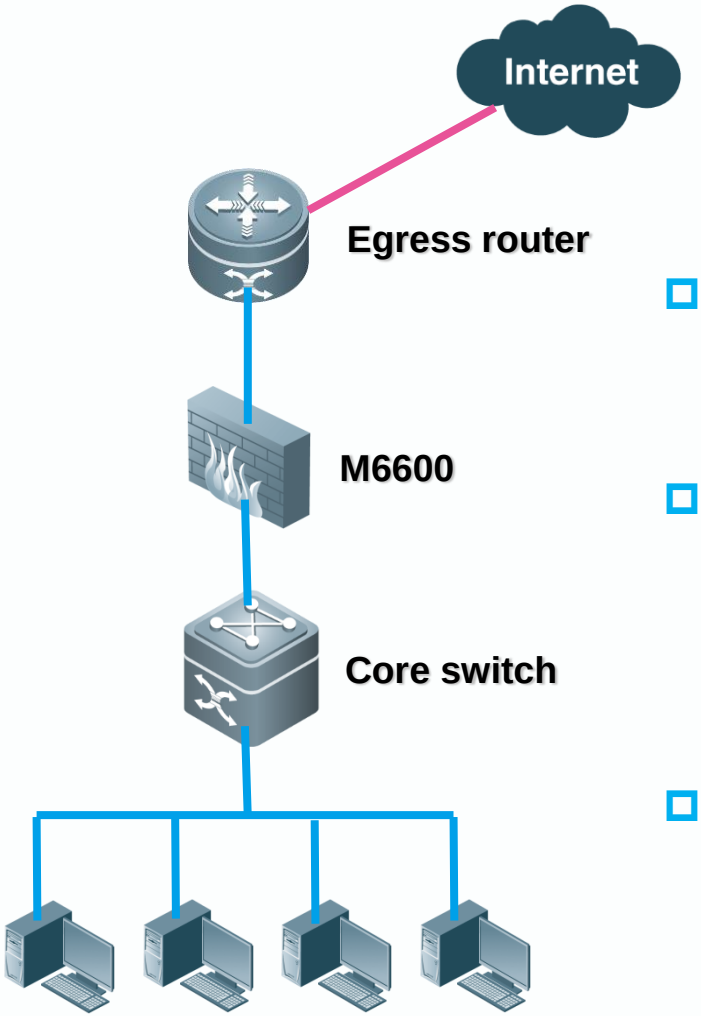
Typical Networking Application



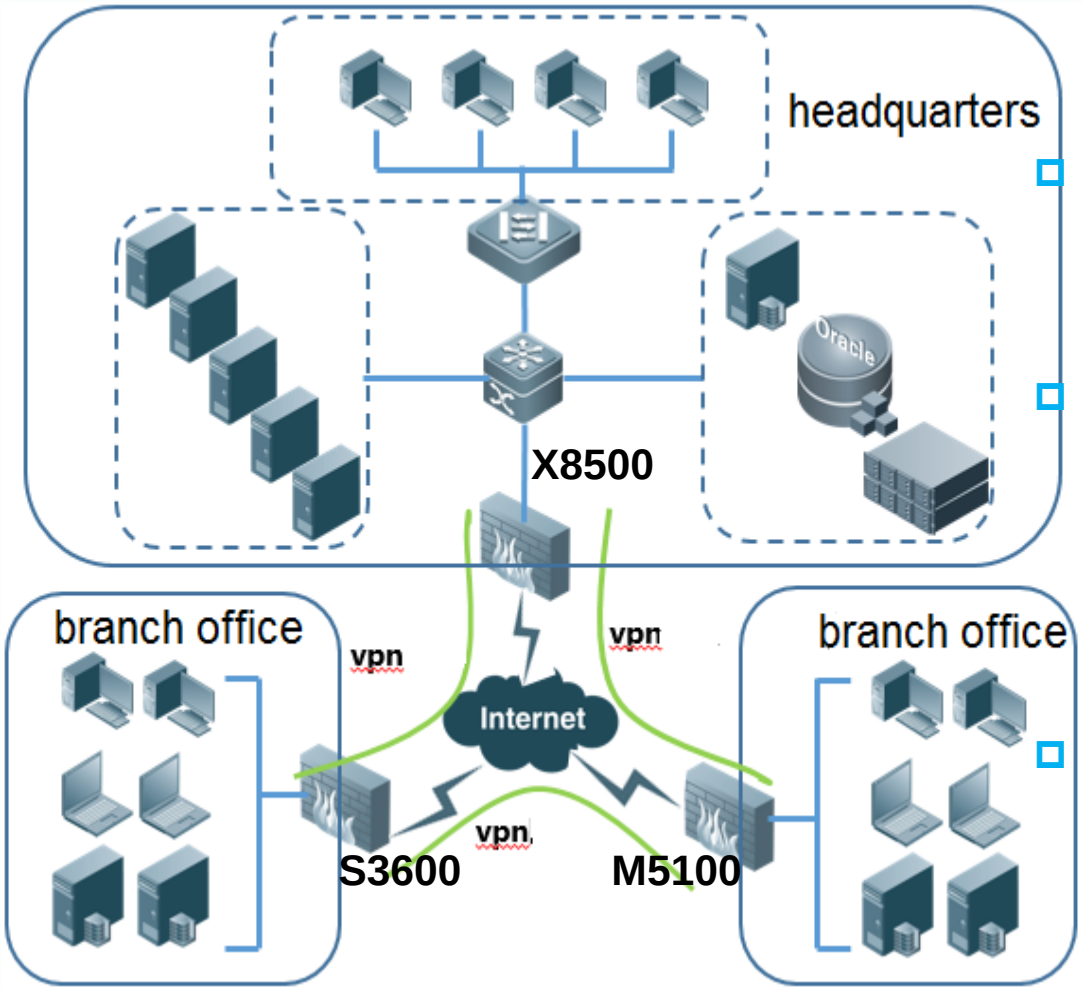
- **Application scenarios**: The firewall is deployed at the network egresses of enterprises, hotels, and schools.
- **Common functions**: Alternative-line load balancing is realized through network address translation (NAT) based on policy-based routing (PBR). The security of internal servers is protected by the firewall and Unified Threat Management (UTM). The traffic of internal users is controlled using the traffic control feature, thereby improving bandwidth utilization.
- **Device models**: M6600, X8500, and X9300

Typical Networking Application



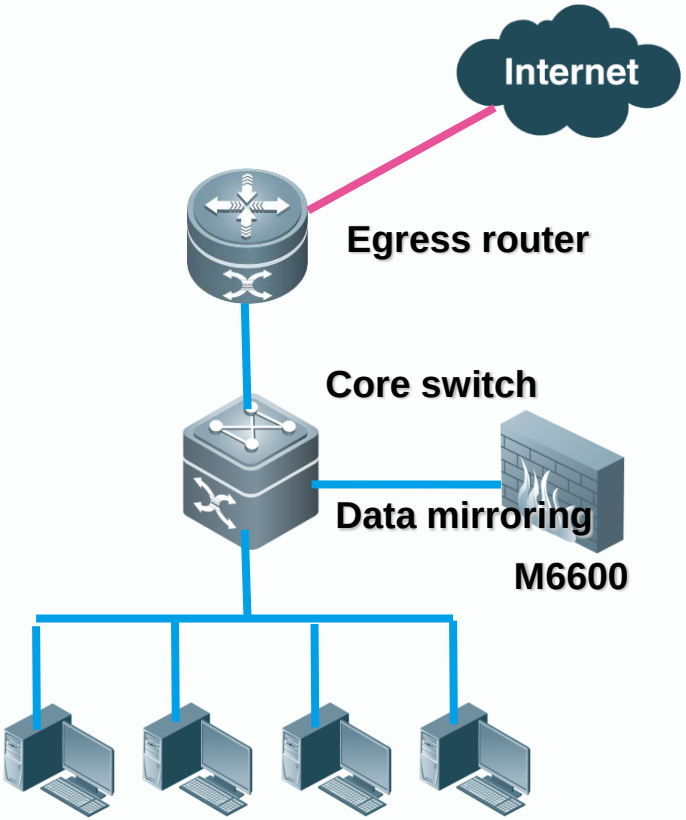
- **Application scenario**: The firewall is deployed in bridge mode at the network egresses of enterprises and universities.
- **Common functions**: The firewall is serially connected to the network without modification to the original topology. This scenario supports firewall protection, UTM application layer protection, traffic control, and other security features.
- Device models: M6600, X8500, and X9300

Typical Networking Application



- **Application scenario**: The firewall is deployed at the network egress of an enterprise connected with its branch offices.
- **Common functions**: The firewall protects the security of the VPN interconnection between the headquarters and branch offices, in order to realize business data encryption, ensure information security, and access to internal resources and office automation (OA) systems.
- **Device models**:
  Headquarters: M6600, X8500, and X9300
  Branch offices: S3100, S3600, and M5100

Typical Networking Application



- **Application scenario**: The network has heavy traffic and serial connection is relatively complex. The firewall only needs to perform network security analysis.
- **Common functions**: An interface on the firewall is set to Sniffer mode to receive network data. The UTM feature is enabled to analyze network security events.
- **Device models**: M6600, X8500, and X9300